

8-1 PCT RE6451PTO 17 AUG 2006

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

08700

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371**

ATTORNEY'S DOCKET NUMBER  
KSI-323USU.S. APPLICATION NO. (If known, see 37 CFR 1.5)  
10/552,429INTERNATIONAL APPLICATION NO.  
PCT/US2004/10861INTERNATIONAL FILING DATE  
09 APR 2004 (09.04.2004)PRIORITY DATE CLAIMED  
09 APR 2003 (09.04.2003)TITLE OF INVENTION  
ELECTRICAL INTERCONNECT STRUCTURES FOR INTEGRATED CIRCUITS AND METHODS OF MANUFACTURING THE SAMEAPPLICANT(S) FOR DO/EO/US  
KULICKE AND SOFFA INDUSTRIES, INC.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1.  This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.
2.  This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.
3.  This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4.  The US has been elected (Article 31).
5.  A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a.  is attached hereto (required only if not communicated by the International Bureau).
  - b.  has been communicated by the International Bureau.
  - c.  is not required, as the application was filed in the United States Receiving Office (RO/US).
6.  An English language translation of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. is  attached hereto.
  - b.  has been previously submitted under 35 U.S.C. 154(d)(4).
7.  Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a.  are attached hereto (required only if not communicated by the International Bureau).
  - b.  have been communicated by the International Bureau.
  - c.  have not been made; however, the time limit for making such amendments has NOT expired.
  - d.  have not been made and will not be made.
8.  An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9.  An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10.  An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11.  An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12.  An assignment or document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13.  A preliminary amendment ~~130.00~~ 0P
14.  An Application Data Sheet under 37 CFR 1.76.
15.  A substitute specification.
16.  A power of attorney and/or change of address letter.
17.  A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.
18.  A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19.  A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/552,429		INTERNATIONAL APPLICATION NO. PCT/US2004/10861		ATTORNEY'S DOCKET NUMBER KSI-323US	
20. Other items or information:  Petition for Extension of Time					
The following fees have been submitted				CALCULATIONS PTO USE ONLY	
21. <input type="checkbox"/> Basic national fee (37 CFR 1.492(a)).....\$300				\$	
22. <input type="checkbox"/> Examination fee (37 CFR 1.492(c))				\$	
If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4).....\$0 All other situations.....\$200				\$	
23. <input type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4).....\$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority.....\$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB.....\$400 All other situations.....\$500				\$	
TOTAL OF 21, 22 and 23 =					
<input type="checkbox"/> Additional fee for specification and drawings filed in paper of 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) and (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)) Fee is \$250 for each additional 50 sheets or a fraction thereof				\$	
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE	\$	
- 100 =	/50 =		x \$250	\$	
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).				\$ 130.00	
CLAIMS		NUMBER FILED	NUMBER EXTRA	\$	
Total claims		- 20 =		\$	
Independent claims		- 3 =		\$	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360	\$	
TOTAL OF ABOVE CALCULATIONS =				\$	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by $\frac{1}{4}$				\$	
SUBTOTAL =				\$	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				\$	
TOTAL NATIONAL FEE =				\$ 130.00	
Fee for recording the end-uses assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$ 40.00	
TOTAL FEES ENCLOSED =				\$ 170.00	
				Amount to be refunded:	\$
				Amount to be charged	\$

a.  A check in the amount of \$ \_\_\_\_\_ to cover the above fees is enclosed.

b.  Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.

c.  The Commissioner is hereby authorized to charge any additional fees that may be required, or credit any overpayment to Deposit Account No. 50-3643. A duplicate copy of this sheet is enclosed.

d.  Fees are to be charged to a Credit Card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Christopher M. Spletzer, Sr.  
Kulicke and Soffa Industries, Inc.  
1005 Virginia Drive  
Fort Washington, PA 19034



SIGNATURE

Christopher M. Spletzer, Sr.

NAME

52,240

REGISTRATION NUMBER

**CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)**  
Applicant(s): David T. Beatson et al.

Docket No.  
KSI-323US

Serial No.  
10/552,429

Filing Date  
October 7, 2005

Examiner

Group Art Unit

Invention: ELECTRICAL INTERCONNECT STRUCTURES FOR INTEGRATED CIRCUITS AND METHODS OF MANUFACTURING THE SAME

I hereby certify that the following correspondence:

PTO-1390 (3 pgs.); Petition for Extension of Time in duplicate; PTO-2038; Response to Notification of Missing Requirements (1 pg.); Copy of 371 Formalities Letter dated June 8, 2006 (2 pgs.); Declaration/Power of Attorney (9 pgs.); 1595 and Assignment document (7 pgs.); Postcard

*(Identify type of correspondence)*

Is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450  
on August 17, 2006

Reginald Mangram

*(Typed or Printed Name of Person Mailing Correspondence)*



*(Signature of Person Mailing Correspondence)*

EQ 442 311 591 US

*("Express Mail" Mailing Label Number)*

**Note: Each paper must have its own certificate of mailing.**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Appln. No: 10/552,429  
Applicant: David T. Beatson et al.  
Filed: October 7, 2005  
Title: ELECTRICAL INTERCONNECT STRUCTURES FOR INTEGRATED CIRCUITS  
AND METHODS OF MANUFACTURING THE SAME  
TC/A.U.: To Be Assigned  
Examiner: To Be Assigned

**RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS UNDER U.S.C. 371 IN THE  
UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Responsive to the Notification dated June 8, 2006, enclosed is the Declaration/Power of Attorney in compliance with 37 C.F.R. § 1.495. Also enclosed is a copy of the Notification. PTO-2038 is enclosed to cover the required surcharge of \$130.

Respectfully submitted,



Christopher M. Spletzer, Sr., Reg. No. 52,240  
Attorney for Applicants

Enclosures: Declaration/Power of Attorney

Dated: August 17, 2006

Kulicke and Soffa Industries, Inc.  
1005 Virginia Drive  
Fort Washington, PA 19034  
(215)784-6817

The Commissioner for Patents is hereby authorized to charge payment to Deposit Account No. 50-3643 of any fees associated with this communication.

**EXPRESS MAIL**

Mailing Label Number:

EQ 442 311 594 US

Date of Deposit:

August 17, 2006

I hereby certify that this paper and fee are being deposited, under 37 C.F.R. § 1.10 and with sufficient postage, using the "Express Mail Post Office to Addressee" service of the United States Postal Service on the date indicated above and that the deposit is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



Reginald Mangram

KSI-323VS

Page 1 of 2

**COPY**



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/552,429	David T. Beatson	P26229-A USA

Joseph F Posillico  
Synnestvedt & Lechner  
Suite 2600  
1101 Market Street  
Philadelphia, PA 19107

Received

JUN 15 2006

Kulicke and Soffa  
Industries, Inc.

Date Mailed: 06/08/2006

INTERNATIONAL APPLICATION NO.

PCT/US04/10861

I.A. FILING DATE	PRIORITY DATE
------------------	---------------

04/09/2004 04/09/2003

CONFIRMATION NO. 4419

371 FORMALITIES LETTER



\*OC000000019155671\*

**NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)**

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 10/07/2005
- Copy of the International Search Report filed on 10/07/2005
- Copy of IPE Report filed on 10/07/2005
- Preliminary Amendments filed on 10/07/2005
- Information Disclosure Statements filed on 10/07/2005
- Request for Immediate Examination filed on 10/07/2005
- U.S. Basic National Fees filed on 10/07/2005
- Priority Documents filed on 10/07/2005

The applicant needs to satisfy supplemental fees problems indicated below.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

**SUMMARY OF FEES DUE:**

Total additional fees required for this application is \$130 for a Large Entity:

26229-A USA

RECEIVED

JUN 13 2006

SYNNESTVEDT & LECHNER  
ATTEN: J. PIGAHL/JDL

**CASE CLOSED**

- \$130 Surcharge.

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

ANITA D JOHNSON

---

Telephone: (703) 308-9140 EXT 226

**PART 1 - ATTORNEY/APPLICANT COPY**

---

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/552,429	PCT/US04/10861	P26229-A USA

FORM PCT/DO/EO/905 (371 Formalities Notice)